

## DECLARATION OF PERFORMANCE

### No. USSK-06/2020

<b>1. Unique identification code for product type:</b>	Spiral welded hollow sections of steel grades: <b>S235JRH, S270J0H, S275J2H, S355J0H, S355J2H, S355K2H</b> acc. to EN 10219-1:2006
<b>2. Intended use/es:</b>	For use in metal buildings and buildings constructed of metal and concrete.
<b>3. Manufacturer:</b>	U. S. Steel Košice, s. r. o. Vstupný areál U. S. Steel 044 54 Košice Slovenská Republika Producing plant: Hot rolling mill Division Plant, Pipes Mill
<b>4. Authorized representative:</b>	not relevant
<b>5. System/s of AVCP:</b>	system 2+
<b>6a. Harmonized standard:</b>	EN 10219-1:2006 Cold formed welded structural hollow sections of non-alloy and fine grain steels. Part 1: Technical delivery requirements.
<b>Notified body/ies:</b>	TÜV Thüringen e.V. Melchendorfer Straße 64 99096 Erfurt Identification number of the notified body 0090 Issued: <b>Certificate of Factory Production Control</b> No. 0090-CPR-0890

#### 7. Declared performance/s:

Essential characteristics	Performance		Technical specification
Tolerances on dimensions and shape	<i>Outside diameter (D)</i>	± 1% min. ±0,5 mm max. 10 mm	EN 10219-2:2006 Article 6, table 2
	<i>Thickness (T)</i>	$D \leq 406,4 \text{ mm:}$ $T \leq 5 \text{ mm} \pm 10\%$ $T > 5 \text{ mm} \pm 0,50 \text{ mm}$ $D > 406,4 \text{ mm:}$ $\pm 10\% \text{ max. } \pm 2 \text{ mm}$	
	<i>Out of roundness (O)</i>	2% At diameter to thickness ratio $\leq 100$	
	<i>Straightness (e)</i>	0.20% of total length 3 mm over any 1 m of length	
	<i>Weight (M)</i>	± 6% of the respective length	
Minimum elongation A	<i>S235JRH</i>	24%	EN 10219-1:2006 Článok 6.7.1, tabuľka A.3
	<i>S275J0H</i>	20%	
	<i>S275J2H</i>		
	<i>S355J0H</i>		
	<i>S355J2H</i>		
	<i>S355K2H</i>		

Minimum upper yield strength $R_{eH}$	S235JRH	235 MPa	EN 10219-1:2006 Article 6.7.1, table A.3
	S275J0H	275 MPa	
	S275J2H		
	S355J0H	355 MPa	
	S355J2H		
	S355K2H		

Tensile strength $R_m$	S235JRH	360 to 510 MPa	EN 10219-1:2006 Article 6.7.1, table A.3
	S275J0H	410 to 560 MPa	
	S275J2H		
	S355J0H	470 to 630 MPa	
	S355J2H		
	S355K2H		

Minimum impact energy $KV$	S235JRH*	27 J at +20 °C	EN 10219-1:2006 Article 6.7.1, table A.3
	S275J0H*	27 J at 0 °C	
	S275J2H	27 J at - 20 °C	
	S355J0H*	27 J at 0 °C	
	S355J2H	27 J at - 20 °C	
	S355K2H	40 J at - 20 °C	

\* The value of impact energy is evaluated only if it is agreed upon during quoting and ordering

Weldability	The above-stated steel grades are weldable	EN 10219-1:2006 Article 6.8.1 table A1, A2
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		Maximum weight ratio in %						
		C	Si	Mn	P	S	N	
Chemical analysis	S235JRH	0,17	-	1,40	0,040	0,040	0,009	EN 10219-1:2006 Article 6.6, table A.1
	S275J0H	0,20	-	1,50	0,035	0,035	0,009	
	S275J2H	0,20	-	1,50	0,030	0,030	-	
	S355J0H	0,22	0,55	1,60	0,035	0,035	0,009	
	S355J2H	0,22	0,55	1,60	0,030	0,030	-	
	S355K2H	0,22	0,55	1,60	0,030	0,030	-	

The Declaration of performance for download: <http://www.usske.sk/sk/produkty/spiralovo-zvarane-rury/vyhlasenie-o-parametroch>

8. The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by  
Kosice, July 7, 2020:

Name: Ing. Vladimír Timko  
Position: Head Manager Tubular Support

Ing. Radomír Chovanec  
Manager QMS USSK

Signature:


